



## Simplifying Fraction Exponent Expressions (Division)

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Score: \_\_\_\_\_

$$\frac{\left(\frac{2}{3}\right)^4 \cdot \left(\frac{2}{3}\right)^{-2} \cdot \left(\frac{2}{3}\right)^9}{\left(\frac{2}{3}\right)^5}$$

$$\frac{\left(\frac{3}{5}\right) \cdot \left(\frac{3}{5}\right)^2 \cdot \left(\frac{3}{5}\right)^{11}}{\left(\frac{3}{5}\right)^9}$$

$$\frac{\left(\frac{1}{7}\right)^7 \cdot \left(\frac{1}{7}\right)^8 \cdot \left(\frac{1}{7}\right)^7}{\left(\frac{1}{7}\right)^2}$$

$$\frac{\left(\frac{1}{6}\right)^6 \cdot \left(\frac{1}{6}\right)^2 \cdot \left(\frac{1}{6}\right)^5 \cdot \left(\frac{1}{6}\right)^{11}}{\left(\frac{1}{6}\right)^{10} \cdot \left(\frac{1}{6}\right)^{-2}}$$

$$\frac{\left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^{-7} \cdot \left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^{-9}}{\left(\frac{4}{7}\right)^4 \cdot \left(\frac{4}{7}\right)^8}$$

$$\left(\frac{1}{9}\right)^{10} \cdot \left(\frac{1}{9}\right)^{-7} \cdot \left(\frac{1}{9}\right)^6$$

$$\frac{\left(\frac{1}{3}\right)^{11} \cdot \left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-4}}{\left(\frac{1}{3}\right)^3}$$

$$\frac{\left(\frac{3}{5}\right)^4 \cdot \left(\frac{3}{5}\right)^2 \cdot \left(\frac{3}{5}\right)^3 \cdot \left(\frac{3}{5}\right)^{10}}{\left(\frac{3}{5}\right)^{-9} \cdot \left(\frac{3}{5}\right)^{-8}}$$

$$\frac{\left(\frac{1}{2}\right)^{-2} \cdot \left(\frac{1}{2}\right)^9 \cdot \left(\frac{1}{2}\right)^4 \cdot \left(\frac{1}{2}\right)^{10}}{\left(\frac{1}{2}\right)^2 \cdot \left(\frac{1}{2}\right)}$$

$$\frac{\left(\frac{2}{5}\right)^{-6} \cdot \left(\frac{2}{5}\right) \cdot \left(\frac{2}{5}\right)^{-7}}{\left(\frac{2}{5}\right)^{-3}}$$

$$\frac{\left(\frac{4}{9}\right)^{-2} \cdot \left(\frac{4}{9}\right)^9 \cdot \left(\frac{4}{9}\right)^7 \cdot \left(\frac{4}{9}\right)^{-3}}{\left(\frac{4}{9}\right)^{-7} \cdot \left(\frac{4}{9}\right)^3}$$

$$\frac{\left(\frac{1}{5}\right)^9 \cdot \left(\frac{1}{5}\right)^{10} \cdot \left(\frac{1}{5}\right)^{-4}}{\left(\frac{1}{5}\right)}$$

$$\frac{\left(\frac{1}{7}\right)^7 \cdot \left(\frac{1}{7}\right)^2 \cdot \left(\frac{1}{7}\right)^{-5}}{\left(\frac{1}{7}\right)^{-7}}$$

$$\left(\frac{3}{7}\right)^8 \cdot \left(\frac{3}{7}\right)^{-9} \cdot \left(\frac{3}{7}\right)^{-9}$$

$$\frac{\left(\frac{4}{5}\right)^{11} \cdot \left(\frac{4}{5}\right)^{11} \cdot \left(\frac{4}{5}\right)^{-5} \cdot \left(\frac{4}{5}\right)^8}{\left(\frac{4}{5}\right)^{-6} \cdot \left(\frac{4}{5}\right)^{-4}}$$